BIOTECHNOLOGY
SYSTEMS
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RAW SEQUENCE LISTING
ERROR REPORT

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Application Serial Number: *09/804,733 D*
Source: *I.F.W.I6*
Date Processed by STIC: *3/24/04*

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1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm> , EFS Submission User Manual - ePAVE)
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Revised 10/08/03

IFW16

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/804,733D

DATE: 03/24/2004
TIME: 15:55:24

Input Set : D:\Mons016.app
Output Set: N:\CRF4\03242004\I804733D.raw

```
 3 <110> APPLICANT: WANG, QI ET AL.
 5 <120> TITLE OF INVENTION: RECOMBINANT PROTEINS CONTAINING REPEATING UNITS
 7 <130> FILE REFERENCE: MONS:016US
 9 <140> CURRENT APPLICATION NUMBER: 09/804,733D
10 <141> CURRENT FILING DATE: 2001-03-13
12 <150> PRIOR APPLICATION NUMBER: 06/188,990    60/188,990
13 <151> PRIOR FILING DATE: 2000-03-13
15 <160> NUMBER OF SEQ ID NOS: 31
17 <170> SOFTWARE: PatentIn Ver. 2.1
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 5
21 <212> TYPE: PRT
22 <213> ORGANISM: Euthynnus pelamis
24 <400> SEQUENCE: 1
25 Leu Lys Pro Asn Met
26   1               5
29 <210> SEQ ID NO: 2
30 <211> LENGTH: 4
31 <212> TYPE: PRT
32 <213> ORGANISM: Euthynnus pelamis
34 <400> SEQUENCE: 2
35 Lys Pro Asn Met
36   1
39 <210> SEQ ID NO: 3
40 <211> LENGTH: 4
41 <212> TYPE: PRT
42 <213> ORGANISM: Euthynnus pelamis
44 <400> SEQUENCE: 3
45 Val Val Tyr Pro
46   1
49 <210> SEQ ID NO: 4
50 <211> LENGTH: 15
51 <212> TYPE: DNA
52 <213> ORGANISM: Artificial Sequence
54 <220> FEATURE:
55 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
56       Primer
58 <220> FEATURE:
59 <221> NAME/KEY: modified_base
60 <222> LOCATION: (3)..(9)
61 <223> OTHER INFORMATION: N = A, C, G or T/U
63 <400> SEQUENCE: 4
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W--> 64 ctnaarccna ayatg

pp 1-2, 6

15

3/24/04

RAW SEQUENCE LISTING DATE: 03/24/2004
PATENT APPLICATION: US/09/804,733D TIME: 15:55:24

Input Set : D:\Mons016.app
Output Set: N:\CRF4\03242004\I804733D.raw

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  67 <210> SEQ ID NO: 5
  68 <211> LENGTH: 60
  69 <212> TYPE: DNA
  70 <213> ORGANISM: Artificial Sequence
  72 <220> FEATURE:
  73 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
  74       Primer
  76 <220> FEATURE:
  77 <221> NAME/KEY: modified_base
  78 <222> LOCATION: (3)..(54)
  79 <223> OTHER INFORMATION: N = A, C, G, or T/U
  81 <400> SEQUENCE: 5
W--> 82 ctnaarccna ayatgctnaa rccnaayatg ctnaarccna ayatgctnaa rccnaayatg 60
  85 <210> SEQ ID NO: 6
  86 <211> LENGTH: 60
  87 <212> TYPE: DNA
  88 <213> ORGANISM: Artificial Sequence
  90 <220> FEATURE:
  91 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
  92       Primer
  94 <220> FEATURE:
  95 <221> NAME/KEY: modified_base
  96 <222> LOCATION: (7)..(52)    what about "n" at location 58?
  97 <223> OTHER INFORMATION: N = A, C, G or T/U
  99 <400> SEQUENCE: 6
W--> 100 catrttnggy ttnagcatrt tnggyttnag catrttnggy ttnagcatrt tnggyttnag 60
 103 <210> SEQ ID NO: 7
 104 <211> LENGTH: 25
 105 <212> TYPE: DNA
 106 <213> ORGANISM: Artificial Sequence
 108 <220> FEATURE:
 109 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 110       Primer
 112 <220> FEATURE:
 113 <221> NAME/KEY: modified_base
 114 <222> LOCATION: (12)..(18)
 115 <223> OTHER INFORMATION: N = A, C, G or T/U
 117 <400> SEQUENCE: 7                                    25
W--> 118 aaagaattcc tnaarccnaa yatgc
 121 <210> SEQ ID NO: 8
 122 <211> LENGTH: 27
 123 <212> TYPE: DNA
 124 <213> ORGANISM: Artificial Sequence
 126 <220> FEATURE:
 127 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 128       Primer
 130 <220> FEATURE:
 131 <221> NAME/KEY: modified_base
 132 <222> LOCATION: (18)..(24)
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/804,733D

DATE: 03/24/2004
TIME: 15:55:24

Input Set : D:\Mons016.app
Output Set: N:\CRF4\03242004\I804733D.raw

```
       133 <223> OTHER INFORMATION: N = A, C, G or T/U
       135 <400> SEQUENCE: 8
W-->   136 aaagcggccg ccatrttngg yttnagc                          27
       139 <210> SEQ ID NO: 9
       140 <211> LENGTH: 20
       141 <212> TYPE: DNA
       142 <213> ORGANISM: Artificial Sequence
       144 <220> FEATURE:
       145 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
       146        Primer
       148 <400> SEQUENCE: 9                                       20
       149 taatacgact cactataggg
       152 <210> SEQ ID NO: 10
       153 <211> LENGTH: 19
       154 <212> TYPE: DNA
       155 <213> ORGANISM: Artificial Sequence
       157 <220> FEATURE:
       158 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
       159        Primer
       161 <400> SEQUENCE: 10                                      19
       162 cgatcaataa cgagtcgcc
       165 <210> SEQ ID NO: 11
       166 <211> LENGTH: 48
       167 <212> TYPE: DNA
       168 <213> ORGANISM: Artificial Sequence
       170 <220> FEATURE:
       171 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
       172        Primer
       174 <220> FEATURE:
       175 <221> NAME/KEY: modified_base
       176 <222> LOCATION: (3)..(48)
       177 <223> OTHER INFORMATION: N = A, C, G or T/U
       179 <400> SEQUENCE: 11                                      48
W-->   180 gtngtntayc cngtngtnta yccngtngtn taysccngtng tntayccn
       183 <210> SEQ ID NO: 12
       184 <211> LENGTH: 48
       185 <212> TYPE: DNA
       186 <213> ORGANISM: Artificial Sequence
       188 <220> FEATURE:
       189 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
       190        Primer
       192 <220> FEATURE:
       193 <221> NAME/KEY: modified_base
       194 <222> LOCATION: (1)..(46)
       195 <223> OTHER INFORMATION: N = A, C, G or T/U
       197 <400> SEQUENCE: 12                                      48
W-->   198 nggrtanacn acnggrtana cnacnggrta nacnacnggr tanacnac
       201 <210> SEQ ID NO: 13
       202 <211> LENGTH: 33
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RAW SEQUENCE LISTING   DATE: 03/24/2004
PATENT APPLICATION: US/09/804,733D   TIME: 15:55:24

Input Set : D:\Mons016.app
Output Set: N:\CRF4\03242004\I804733D.raw

```
203 <212> TYPE: DNA
204 <213> ORGANISM: Artificial Sequence
206 <220> FEATURE:
207 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
208       Primer
210 <220> FEATURE:
211 <221> NAME/KEY: modified_base
212 <222> LOCATION: (12)..(33)
213 <223> OTHER INFORMATION: N = A, C, G or T/U
215 <400> SEQUENCE: 13
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W--> 216 aaaggatccg tngtntaycc ngtngtntay ccn   **33**
```
219 <210> SEQ ID NO: 14
220 <211> LENGTH: 33
221 <212> TYPE: DNA
222 <213> ORGANISM: Artificial Sequence
224 <220> FEATURE:
225 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
226       Primer
228 <220> FEATURE:
229 <221> NAME/KEY: modified_base
230 <222> LOCATION: (10)..(31)
231 <223> OTHER INFORMATION: N = A, C, G or T/U
233 <400> SEQUENCE: 14
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W--> 234 cccaagcttn ggrtanacna cnggrtanac nac   **33**
```
237 <210> SEQ ID NO: 15
238 <211> LENGTH: 45
239 <212> TYPE: DNA
240 <213> ORGANISM: Artificial Sequence
242 <220> FEATURE:
243 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
244       Primer
246 <220> FEATURE:
247 <221> NAME/KEY: modified_base
248 <222> LOCATION: (3)..(45)
249 <223> OTHER INFORMATION: N = A, C, G or T/U
251 <400> SEQUENCE: 15
```
W--> 252 gtnccnccng tnccnccngt nccnccngtn ccnccgtnc cnccn   **45**
```
255 <210> SEQ ID NO: 16
256 <211> LENGTH: 45
257 <212> TYPE: DNA
258 <213> ORGANISM: Artificial Sequence
260 <220> FEATURE:
261 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
262       Primer
264 <220> FEATURE:
265 <221> NAME/KEY: modified_base
266 <222> LOCATION: (1)..(43)
267 <223> OTHER INFORMATION: N = A, C, G or T/U
269 <400> SEQUENCE: 16
```

```
                    RAW SEQUENCE LISTING              DATE: 03/24/2004
                    PATENT APPLICATION:  US/09/804,733D    TIME: 15:55:24

                    Input Set : D:\Mons016.app
                    Output Set: N:\CRF4\03242004\I804733D.raw
```

```
W--> 270 nggnggnacn ggnggnacng gnggnacngg nggnacnggn ggnac          45
     273 <210> SEQ ID NO: 17
     274 <211> LENGTH: 36
     275 <212> TYPE: DNA
     276 <213> ORGANISM: Artificial Sequence
     278 <220> FEATURE:
     279 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
     280       Primer
     282 <220> FEATURE:
     283 <221> NAME/KEY: modified_base
     284 <222> LOCATION: (12)..(36)
     285 <223> OTHER INFORMATION: N = A, C, G or T/U
     287 <400> SEQUENCE: 17
W--> 288 aaaggatccg tnccnccngt nccnccngtn ccnccn                     36
     291 <210> SEQ ID NO: 18
     292 <211> LENGTH: 36
     293 <212> TYPE: DNA
     294 <213> ORGANISM: Artificial Sequence
     296 <220> FEATURE:
     297 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
     298       Primer
     300 <220> FEATURE:
     301 <221> NAME/KEY: modified_base
     302 <222> LOCATION: (10)..(34)
     303 <223> OTHER INFORMATION: N = A, C, G or T/U
     305 <400> SEQUENCE: 18
W--> 306 aataagcttn ggnggnacng gnggnacngg nggnac                     36
     309 <210> SEQ ID NO: 19
     310 <211> LENGTH: 8
     311 <212> TYPE: PRT
     312 <213> ORGANISM: Artificial Sequence
     314 <220> FEATURE:
     315 <223> OTHER INFORMATION: Description of Artificial Sequence:m Synthetic
     316       Peptide
     318 <400> SEQUENCE: 19
     319 Val Pro Pro Leu Lys Pro Asn Met
     320   1               5
     323 <210> SEQ ID NO: 20
     324 <211> LENGTH: 48
     325 <212> TYPE: DNA
     326 <213> ORGANISM: Artificial Sequence
     328 <220> FEATURE:
     329 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
     330       Primer
     332 <220> FEATURE:
     333 <221> NAME/KEY: modified_base
     334 <222> LOCATION: (3)..(42)
     335 <223> OTHER INFORMATION: N = A, C, G or T/U
     337 <400> SEQUENCE: 20
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 03/24/2004
PATENT APPLICATION: US/09/804,733D   TIME: 15:55:25

Input Set : D:\Mons016.app
Output Set: N:\CRF4\03242004\I804733D.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

```
Seq#:4;  N Pos. 3,9
Seq#:5;  N Pos. 3,9,18,24,33,39,48,54
Seq#:6;  N Pos. 7,13,22,28,37,43,52,58
Seq#:7;  N Pos. 12,18
Seq#:8;  N Pos. 18,24
Seq#:11; N Pos. 3,6,12,15,18,24,27,30,36,39,42,48
Seq#:12; N Pos. 1,7,10,13,19,22,25,31,34,37,43,46
Seq#:13; N Pos. 12,15,21,24,27,33
Seq#:14; N Pos. 10,16,19,22,28,31
Seq#:15; N Pos. 3,6,9,12,15,18,21,24,27,30,33,36,39,42,45
Seq#:16; N Pos. 1,4,7,10,13,16,19,22,25,28,31,34,37,40,43
Seq#:17; N Pos. 12,15,18,21,24,27,30,33,36
Seq#:18; N Pos. 10,13,16,19,22,25,28,31,34
Seq#:20; N Pos. 3,6,9,12,18,27,30,33,36,42
Seq#:21; N Pos. 7,13,16,19,22,31,37,40,43,46
Seq#:22; N Pos. 13,16,19,22,28,37,40,43,46,52
Seq#:23; N Pos. 19,25,28,31,34,40,43,46,55,61,64,67,70,76,79,82
Seq#:25; N Pos. 3,6,9,15,18,21,24,30,39,42,45,51,54,57,60,66
Seq#:26; N Pos. 7,13,16,19,22,28,31,34,43,49,52,55,58,64,67,70
Seq#:27; N Pos. 13,16,19,25,28,31,34,40,49,52,55,61,64,67,70,76
Seq#:28; N Pos. 19,25,28,31,34,40,43,46,55,61,64,67,70,76,79,82
Seq#:30; N Pos. 3,9,18,24,33,39,48,54,63,69,78,84,93,99,108,114,123,129,138
Seq#:30; N Pos. 144,153,159,168,174,183,189,198,204,213,219,228,234,243,249
Seq#:30; N Pos. 258,264,273,279,288,294,303,309,318,324,333,339,348,354,363
Seq#:30; N Pos. 369,378,384,393,399,408,414,423,429,438,444,453,459,468,474
Seq#:30; N Pos. 483,489,498,504,513,519,528,534,543,549,558,564,573,579,588
Seq#:30; N Pos. 594,603,609
Seq#:31; N Pos. 3,9,18,24,33,39,48,54,63,69,78,84,93,99,108,114,123,129,138
Seq#:31; N Pos. 144,153,159,168,174,183,189,198,204,213,219,228,234,243,249
Seq#:31; N Pos. 258,264,273,279,288,294,303,309,318,324,329,335,344,350,359
Seq#:31; N Pos. 365,374,380,385,391
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VERIFICATION SUMMARY.
PATENT APPLICATION: US/09/804,733D

DATE: 03/24/2004
TIME: 15:55:25

Input Set : D:\Mons016.app
Output Set: N:\CRF4\03242004\I804733D.raw

L:64 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:82 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:100 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:118 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:180 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:216 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:234 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:252 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:270 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:288 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:306 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:338 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:356 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:374 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:392 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
M:341 Repeated in SeqNo=23
L:425 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
M:341 Repeated in SeqNo=25
L:444 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
M:341 Repeated in SeqNo=26
L:463 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
M:341 Repeated in SeqNo=27
L:482 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
M:341 Repeated in SeqNo=28
L:511 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
M:341 Repeated in SeqNo=30
L:539 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
M:341 Repeated in SeqNo=31